

Title (en)  
AUTOMATIC MICROSCOPIC FOCUS SYSTEM AND METHOD FOR ANALYSIS OF TRANSPARENT OR LOW CONTRAST SPECIMENS

Title (de)  
AUTOMATISCHES MIKROSKOPISCHES FOKUSSIERUNGSSYSTEM UND VERFAHREN ZUR ANALYSE VON TRANSPARENTEN ODER KONTRASTARMEN PROBEN

Title (fr)  
SYSTÈME ET PROCÉDÉ DE MISE AU POINT MICROSCOPIQUE AUTOMATIQUE POUR L'ANALYSE D'ÉCHANTILLONS TRANSPARENTS OU À FAIBLE CONTRASTE

Publication  
**EP 2891005 A4 20160817 (EN)**

Application  
**EP 13834248 A 20130829**

Priority  
• US 201213600962 A 20120831  
• US 2013057311 W 20130829

Abstract (en)  
[origin: WO2014036276A2] A microscope system and method empirically determines the boundaries of the depth of field of an objective lens. The system and method are largely automated, with the manipulation of a specimen to be imaged being carried out by processors and associated equipment. Calculations of the empirical depth of field are also likewise automated. Upon empirically determining the boundaries of the depth of field, the specimen, particularly when transparent or translucent, can be accurately imaged at user-defined depths smaller than the depth of field.

IPC 8 full level  
**G02B 21/00** (2006.01); **G02B 21/24** (2006.01); **H04N 7/18** (2006.01)

CPC (source: EP KR US)  
**G02B 21/244** (2013.01 - EP KR US); **H04N 7/18** (2013.01 - KR)

Citation (search report)  
• [X1] JP H0875980 A 19960322 - OLYMPUS OPTICAL CO  
• [X1] US 2007152130 A1 20070705 - FOMITCHOV PAVEL A [US]  
• [A] US 6043475 A 20000328 - SHIMADA MASAKAZU [JP], et al  
• [A] DE 10112639 A1 20020919 - ZEISS CARL JENA GMBH [DE]  
• See references of WO 2014036276A2

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2014036276 A2 20140306; WO 2014036276 A3 20150716**; CN 105209955 A 20151230; CN 105209955 B 20171128;  
EP 2891005 A2 20150708; EP 2891005 A4 20160817; JP 2015528590 A 20150928; JP 6310460 B2 20180411; KR 101755651 B1 20170710;  
KR 20150034757 A 20150403; US 2014063222 A1 20140306; US 9488819 B2 20161108

DOCDB simple family (application)  
**US 2013057311 W 20130829**; CN 201380042661 A 20130829; EP 13834248 A 20130829; JP 2015530045 A 20130829;  
KR 20157002892 A 20130829; US 201213600962 A 20120831